

# DEVOTED TO THE INTERESTS OF HONEY PRODUCERS.

ESTABLISHED IN

Chicago, Ill., December 17, 1884.

VOL. XX.—No. 51.

THOMAS C. NEWMAN, EDITOR AND PROPRIETOR

925 WEST MADISON ST., CHICAGO, ILL. Weekly, \$2 a year; Monthly, 50 cents.

# Entered at the P.O. as Second-Class matter.

# TO CORRESPONDENTS.

- The Subscription Price of the Weekly BEE JOURNAL is \$2.00 a year; and of the Monthly, 50 cents a year in advance. New Subscriptions can begin at any time.
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- cents each.

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- stamps for any amount may be sent.

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- Sample Copies of the BEE JOURNAL will be sent free upon application. Any one intending to get up a club can have sample copies sent to the persons they desire to interview, by sending the names to the office.

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Our rates for two or more copies of the book, "Bees and Honey," may be found on the Book List on the second page of this paper. Also wholesale rates on all books where they are purchased "to sell again." The time for reading up will soon be here, and in anticipation of this, we now have a very large stock of books on hand, and can fill orders for them in any quantity, on receipt of orders.

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- Advertisements for the next Weekly Ree JOURNAL must reach this office by the Saturday of the previous week.
- Books for Bee-Keepers.—For prices and descriptions of bee-books, see the second page of this paper.
- All Papers are Stopped at the expiration of the time paid for, unless requested to be continued.
- be continued.

  When writing to this office on Business, correspondents must not write anything for publication on the same sheet of paper, unless it can be torn apart without interfering with either part of the letter. The editorial and business departments are separate and distinct, and when the business is mixed up with items for publication it often causes confusion. They both may be sent in one envelope, but on separate pieces of paper.

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  Emerson Binders, made especially for
- Emerson Binders, made especially for the Bee Journal, are lettered in gold on the back, and make a very convenient way of preserving the Bre Journal as fast as received. They will be sent, post-paid, for 75 cents each. They cannot be sent by mail to Canada.
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to twe years, and receiving out one letter or com-plaint.

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Bees and Honey, or Management of an Aplary for Pleasure and Profit, by Thomas, G. Næwan.—It is 'fully up with the times, in all the various improvements and inventions in this rapidly-developing pursuit, and presents the apiarist with everything that can aid in the successful management of the most honey in its best and most attractive condition. It embraces the following subjects: Ancient History of Bees and Honey—Locating an Apiary—Transferring—Feeding—Swarming—Dividing—Extracting—Queen Hearing—Introducing Queens—Italianizing—Bee Pasturage a Necessity—Quieting and Handling Bees—The Management of Bees and Honey at Fairs—Marketing Honey, etc. 220 profusely-illustrated pages. Price, bound in cloth, 81.00; 2 copies for \$1.80; 3 copies for \$2.55; 5 for \$4.00; 10 for \$7.50. Paper covers, 75 cents; 2 copies for \$1.80; 3 copies for \$2.00; 5 for \$3.00; 10 for \$5.00.

The Apiary Register, by Thomas G. Newman.—A Record and Account Book for the Apiary, devoting 2 pages to each colony, ruled and printed, and is so arranged that a mere glance will give its complete history. Strongly bound in full leather. Price, for 50 colonies, \$1.02; for 100 colonies, \$1.25; for 200 colonies, \$1.50.

Honey as Food and Medicine, by Thomas G. Newman.—It gives the various uses of Honey as Food; recipes for making Honey Cakes, Cookies, Puddings, Foam, Wines, etc. Also, Honey as Medicine, with many valuable recipes. It is intended for consumers, and should be liberally scattered to help in creating a demand for honey. Price, for either the English or German edition. 5 cents—one dozen. 40 cents—100 for edition, 5 cents—one dozen, 40 cents—100 for \$2.50—500 for \$10.00—1,000 for \$15.00.—
If 100 or more are ordered, we will print the bee-keeper's card (free of cost) on the cover.

Bee - Keepers' Convention Hand
Book, by Thomas G. Newman.—It contains
a simple Manual of Parliamentary Law and
Rules of Order for the guidance of officers
and members of Local Conventions—Model
Constitution and By-Laws for a Local Society
—Programme for a Convention, with Subjects
for discussion—List of Premium for Fairs,
etc. Bound in cloth, and suitable for the
pocket. Price, 50 cents.

Why Eat Honey? by Thomas G. Newman.—This Leadiet is intended for distribution in the Bee-Keeper's own locality, in order to create a Local Market. Price, 50 cents per 100; 500 copies for \$2.25; 1,000 copies for \$4.00. When 200 or more are ordered at one time, we will print the honey-producer's name and address free, at the bottom the bottom.

Preparation of Honey for the Market, including the production and care of both Comb and Extracted Honey, and Instructions on the Exhibition of Bees and Honey at Fairs, etc., by Thomas G. Newman. This is a chapter from "Bees and Honey." Price, 10c.

Swarming, Dividing and Feeding Bees.—Hints to Beginners, by Thomas G. Newman. A chapter from "Bees and Honey." Price 5c.

Bee Pasturage a Necessity, by Thomas G. Newman-Progressive views on this im-portant subject; suggesting what and how to plant.—A chapter from "Bees and Honey." 26 engravings. Price, 10c.

Bees in Winter, by Thomas G. Newman.

—Describing Chaff-packing, Cellars and Bee-Houses. A chapter from "Bees and Honey."

Price 5c.

Bienen Kultur, by Thomas G. Newman.
—In the German language. Price, in paper covers, 40 cents, or \$3 per doz.

Bee-Keepers' Guide, or Manual of the Aplary, by Prof. A. J. Cook.—It is elegantly illustrated, and fully up with the times on every subject that interests the bee-keeper. It is not only instructive, but interesting and thoroughly practical. It comprises a full delineation of the anatomy and physiology of Bees. Price, \$1.25.

Quinby's New Hee-Keeping, by L. C. Root.—Its style is plain and forcible, making its readers realize the fact that the author is master of the subject. Price, \$1.50.

A B C of Bee-Culture, by A. I. ROOT.— Embraces everything pertaining to the care of the Honey-Bee, and is valuable to the more advanced bee-keeper, as well as the beginner. Cloth, \$1.25; paper, \$1.

Blessed Bees, by John Allen.—A romance of bee-keeping, full of practical information and contagious enthusiasm. Price, 75c.

The Hive and Honey-Bee, by Rev. L. L. LANGSTROTH.—This is the work of a master, and will always remain a standard. Price, \$2.00.

Dzierzon's Rational Bee-Keeping.— A translation of the master-piece of that most celebrated German authority. Price, bound in cloth, \$2.00; in paper covers, \$1.50.

Queen-Rearing, by Henry Allly.—A full and detailed account of 23 years expe-rience in rearing Queen Bees. The cheapest, easiest and best way of rearing. Price, \$1.

Bee-Keepers' Text Book, by A. J. KING.—A new edition, revised and enlarged. Price, \$1.00, bound in cloth.

Extracted Honey; Harvesting, Handling and Marketing.— By Chas. Dadant & Son.—Details their management. Price, 15c.

Practical Hints to Bee-Keepers, by Chas. F. Muth.—Gives his views on the man-agement of bees. Price, 10c.

**Dzierzon Theory.** — The fundamental principles of Dzierzon's system of apiculture as set forth by Berlepsch. It was translated by the late Samuel Wagner. Price, **15c.** 

Dictionary of Practical Apiculture, by Prof. John Phin.—This gives the correct meaning of nearly 500 apicultural terms. Price, bound in cloth, 50c.

The Hive I Use, by G. M. DOOLITTLE.— etails his management of bees. Price 5c.

Foul Brood, by A. R. KOHNKE.—Its origin and cure. Price, 25c.

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Kendall's Horse Book.—No book can be more useful to horse owners. It has 35 engravings, illustrating positions of sick horses, and treats all diseases in a plain and comprehensive manner. It has many good recipes, etc. Price, 25c., in either English or German.

Food Adulteration.—What we eat and should not eat. This book should be in every family. Price, 50e.

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Fisher's Grain Tables.—For casting up the price of grain, produce and hay; wood measurer, ready reckoner, tables for plowing. etc. Price, 40c.

Hand-Book of Health, by Dr. Foote. Rules for eating, drinking, sleeping, bathing, working, dressing, etc. Price, 25c.

Emerson Binders, made especially for the BEE JOURNAL, and lettered in gold on the back. 75c. for the Weekly; or for the Monthly, 50c. They cannot be sent by mail

Constitution and By-Laws, for local Associations, \$2 per 100. The name of the Association printed in the blanks 50c. extra.

Ribbon Badges, for bee-keepers, on which are printed a large bee in gold, 10c. each, or \$8 per 100.

Poulterer's Guide, for treating diseases f Poultry, etc., by C. J. WARD. Price 25c.

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# DEVOTED TO THE INTERESTS OF THE PRODUCERS OF HONEY.

VOL. XX.

CHICAGO, ILL., DECEMBER 17, 1884.

No. 51.

# THOMAS G. NEWMAN

EDITOR AND PROPRIETOR.

This being No. 51, one number more will close the Volume of the Weekly BEE JOURNAL for 1884. Nearly all of the subscriptions will run out in a few days and we would respectfully request such readers and patrons to sit down as soon as this article is read and send us the renewal of his or her subscription for 1885, and thus prevent the loss of a number and the consequent pleasure of the weekly feast it presents.

# The Elements of Success.

The Praire Farmer well says that "if a person would reach the very highest success in horticulture, he must love trees and plants. Must love to look at them, to inquire into their wants and requirements, and to administer to their wants as living things. If a man loves a tree for its beauty, for its shade, for its fruit, and for its company, and loves to study varieties of fruits and habits of plants and trees, then he has the first rudimentary qualifications of a tree and fruit raiser, and may enter on work with assurance of success."

The same rule will apply to apiculture. A person who would succeed, should love the bees and their products; must love to look at them, ascertain their requirements, and administer to their wants. No others can expect to succeed. Though it is not essential that a person should enjoy the eating of honey, it is still desirable that such should be the case-for some human stomachs will not endure its sweetness. In such cases, however, a glass of sweet milk drank after eating the honey will also predicted an unusually green usually cause a pleasant condition of Christmas and a mild New Year.

the system generally, and add to the health of the person using it.

If one loves the honey-bee for its docility and beauty, for its pleasant hum and sporting flight, for its industry and work, for its architectural skill and indomitable energy, then the first-principles of a bee-keeper presents themselves, and such may safely proceed, expecting ultimate success.

In this, as in all other departments of business, it is only the careful and practical that may hope to succeed. Nature has provided the health-giving delicious nectar in myriads of beautiful flowers, which deck forest, field they were received by mail. and garden, and developed the bees to gather this abundant sweetness and store it in quantities far exceeding their wants-providing an opportunity for man to step in and second the efforts of Nature and the bees, and utilize the surplus honey for his pleasure and sustenance.

Bees and flowers are so closely allied, so dependent the one on the other, that we may well love both. What is there in all the Creation so soul-inspiring as a cultivated garden of Nature's flowers of variegated hues and heavenly grandeur? None but the unfortunate or despondent can fail to enjoy Nature in her garb of beauty, decked by the bounteous hand of Deity!

To produce a garden of living gorgeousness, we may all aspire and long enjoy its gratifying results. We may as well become enthusiasts upon bees and flowers, for apiculture and horticulture go hand-in-hand.

Before Vennor died, he had completed the manuscript of his almanac for 1885, which has just been In his general forecast he says: "We are in a moist period, which will continue for two years, extending over the northern and middle States and Canada." The fall of 1884, he predicted, would be very open. He

We have received 10 large quarto volumes of the "Tenth Census of the United States," and shall publish in the BEE JOURNAL for next week, the statistics therein given on honey and wax for all the States and Territories. The census gives no statistics on bees-or at least we have not been able, so far, to find any. We will give a thorough examination and report them, if any are found. The Secretary of the Interior has our thanks for forwarding these volumes, which our visitors can examine at their pleasure, if they so request. Their weight is about 75 pounds, and

The next issue of the Weekly BEE JOURNAL is No. 52, and concludes the Volume for 1884. On account of the great labor on the Indexes, it will be two days later than usual. Our subscribers will please take due notice, and not expect it before that time.

Catalogues for 1885.-We have received the following:

Drake & Smith, Bristol, Vt. C. W. Costellow, Waterborough, Me. J. E. Pryor, Dexter, Iowa. C. M. Goodspeed, Thorn Hill, N. Y. T. A. Pool, Greensburg, Ind.

We have received a copy of the Greenwood, Neb., Hawkeye which contains the following notice of the "Greenwood Apiary" owned by Mr. M. L. Trester:

The apiary is situated in the west part of the town, and has an admirable location. The proprietor has able location. The proprietor has 206 colonies of Italian and hybrid He has erected a large and dious extracting establishbees. commodious ment, and has a yearly capacity of 20,000 pounds of extracted honey. The honey is of the finest and best is strictly pure and free from adultera tions. The proprietor keeps on hand at all times plenty of good, pure honey, which can be had at reasonable rates. The apiary has been visited by some of the leading beemen of the State, and all say unhesitatingly that Greenwood takes the cake from them all.

# ALFILLARILLA, OR FILAREE, A California Honey-Plant.

Our California correspondent, W. A. Pryal, writes us as follows concerning this honey-plant:

The alfillarilla is an Erodium, and two species grow in California, viz: E. circutarium and E. muschatum; they

Its growth is rapid, and by the first of December many of the plants may be found in bloom, and if the season continues favorable, they will be a foot or more in heighth by the middle of February. Damp and cold weather retard its growth and prevent its

Fig. 2 Fig. 3.

belong to or are a form of "crane's-bill." The seed-pods, seed and parts thereof are quite odd, very much like those of the geranium. The early fall rains which usually commence early in October are just sufficient to start the sharp rejusted and spirel. to start the sharp-pointed and spiral-tailed seed of the filaree, as it is commonly called, into existence. The genial sunny weather which follows these showers, and which weather is considered the finest California can boast of, causes the plant to spring up at once into vigorous life, as if by

blooming for some weeks beyond its usual time. On cultivated soil it grows very rank; while on hill and pasture lands it rarely attains the heighth of four inches, and it is of a heighth of four inches, and it is of a trailing habit, while that on fertile soil is tall and robust. From my observations I believe that the honey from Erodium muschatum has not that "rankish" taste as has Erodium circutarium, but the former is more "musky." The engraving, Fig. 1, shows the general form of the plant; Fig. 2, part of the flower stalk, showing flowers, seed-pods, and the seed

ready to fall to the ground; and Fig. 3, a leaf.

ITS HONEY QUALITIES.—Honey obtained from these plants candies shortly after being taken from the combs. Its chief value is that its greatest flow of honey comes at a time when honey is much needed for stimulating the queen to greater expension. stimulating the queen to greater exstimulating the queen to greater ex-ertions in laying. The flow of honey is enormous while it lasts, and the bees soon fill the lower part of the hive with it. Its time of blooming, to any consequence, is about Feb. 15, or a little later, and often so continues until the latter part of April. Like all California honey gathered during the winter months and early spring,

the winter months and early spring, it is of a pretty dark color.

As Food for Stock.—It is one of our "best weeds," for such it is, though not a noxious one, as it is easy to eradicate. Horses, cattle and swine are quite fond of it. Its fattening qualities appear to be excellent. Milk obtained from cows which have grazed on pastures where Erodium muschatum grows, has a musky flavor—so much so that many people

are loth to drink it.

The plants withstand our severest winters, and possibly may be introduced into other States. It is our earliest honey source, and all honey gathered from it is consumed by the bees in brood-rearing, so whatever bad qualities it has are not detrimental to the apiarist.

tal to the apiarist,

Besides the names which I have mentioned, it has other common names among our people, the principal one being "pin-weed;" and by referring to the engraving, one can perceive why it is so called. It grows everywhere, in the highway, the garden, back door-yard, in the valley and on the hill-top, on high, dry and low ground. low ground.

The regular annual meeting of the Indiana State Bee-Keepers' As-sociation will be held on Thursday and Friday, Jan. 22 and 23, 1885. The meetings will be conducted in the rooms of the State Board of Agriculture, on the corner of Tennessee and Market Streets, in Indianapolis, Ind. It is proposed to make this the most important and interesting meeting of bee-keepers ever held in the State. An extensive programme, including all questions of importance to bee-keepers, is being prepared and will be soon sent out to bee-keepers through-out the State. Prominent apiarists out the State. Fromment apparison from neighboring States have been invited to assist and presumably many of them will be in attendance during the meeting. These gatherduring the meeting. These gatherings are of vastimportance, especially to beginners, and all those at all interested in this important industry should make it a point to attend this meeting. FRANK L. DOUGHERTY, Sec.

The Central Illinois Bee-Keepers' Association will hold its next annual meeting in Bloomington, Ill., on the second Wednesday in January, 1885, at 9 a. m. W. B. LAWRENCE, Sec.

# Bee-Keeping in India.

Bee-keeping in India, which appears to be one of the lost arts, has now found a champion in Mr. John Douglas, of the Indian Telegraph Department, says the London Post. Apiculture may yet become a happy resource to the indigent population of India, both as adding another article to their dietary and as eking out their scanty means. In some districts wild honey is said to be eagerly sought after by the native population as an article of food, an offering to the gods, and a soothing syrup for fractious infancy.

The first question for Indian apiculturists is the domestication of great tiger honey-fly. The choicest honey is produced by this ferocious insect with a villainous sting, named in different parts of the country Bhonwara, Bhanwar, Bhaur, and great tiger honey-fly; but the most vertibles for the country beautiful for th worthless sort is obtained from an amiable little insect about a quarter the size of a common house-fly, which offers no objection to being observed, possibly aware that the intruder will obtain very inadequate compensation for his trouble. This species usually builds low down near the ground, under stones or in the clefts of trees; its nest is sought after by children, who eat up honey, comb, and grub on the spot, the bee mean-time accepting the situation with true Asiatic philosophy.

Far different is the fate of him who ventures to disturb the Bhonwara bee, which attacks the traveler on the slightest provocation, and very often strikes on the principle that is better than cure. A prevention swarm of these bees have been known to put a regiment of cavalry to flight, and innumerable are the instances in which man and beast have fallen their unrelenting anivictims to They build their nests on mosity. ledges of rock in steep and inaccessible places, and to obtain their honey. which is said to rival in flavor the celebrated honey of Mount Hymettus, the native hunter has to exercise much caution and dexterity.

The hunter of these bees waits for a dark night, and starts forth after 9 p. m. Having selected the spot he intends to rifle, he prepares to reach it either from above or below, according as seems most feasible; should he ascend he does so by means of a ladder; should be decide to descend, a number of thin, green bamboos are spliced together with fibre and let down over the face of the precipice. One end is fastened to a tree or stake driven into the ground, and over this driven into the ground, and over this
the brother-in-law of the descending
man keeps watch. This particular
relative is chosen as being the least
likely to favor foul play, since on him,
in case of accident, would devolve the
care of the widow and children. The man takes down with him a basket, a knife, and a bunch of dried grass, to which he sets fire on arriving opposite the nests. The bees, aroused by the sting, venomous. It commonly builds at \$1.25 for the two.

glare, desert the combs in thousands, but they are too stupified by the smoke to do anything but buzz aimlessly about, alighting on the rocks and branches, and even on the person of the hunter himself, without at-tempting to sting. The comb is cut away and dropped into the basket, which, when full, is pulled up by those above. Some of the hunters who draw honey in the daytime rub themselves with the juice of a plant the aroma of which bees cannot endure; for these insects have very sen sitive organs of smell, and it would appear that the capricious likes and dislikes they show for different persons depend on their olfactory nerves. It is well known that some people can handle bees with impunity, while others dare not venture within 50 yards of them. The acuteness of this one organ is, however, counterbal-

anced by their total deafness.
Since Virgil wrote the Fourth Georgic, his recommendation has been followed not to have the hives too near the dwelling house, lest the presence of man should disturb the bees' peace of mind: but the Kashmir peasant builds his hives actually in his house, and with the best possible results. Round, tubular cavities are left in the walls, extending right through from the inside to the outer air. They are lined with mortar worked up with the down of thistles. The ends of the tubes are closed with platters of red earthenware, the outer platter having a circular hole in its centre to enable the bees to pass in and out. When the time for taking the honey arrives, the house-father removes the inner platter, and light-ing a wisp of straw blows the smoke into the hive; this causes the bees to rush precipitately towards the outlet, and enables the man to cut away the comb with a knife. Enough is left hanging round the further end of the hive to encourage the swarm to return and begin their labors again.

In "Moorcraft's Travels" we find his observations on bee-culture in the Himalayas as follows:

"In most villages of the northern range of the Himalayas, bees are kept, and honey, the produce of the wild or domesticated bee, is an article of sale. It is commonly sold in the bazaar at from four to six seers for a rupee, and, although, not much thicker than syrup, is of a flavor equal to Narbonne and less cloying to the stomach. There is no great demand for wax, otherwise this might also be plentifully supplied. At present the comb, after the honey is compressed, is thrown away. The domestic bee is known by the name of mahru, mohri, It is not much above half and mari. and mari. It is not much above half the size of that of Europe, but it is very industrious and mild tempered. The wild bee is termed bhaonra, a name by which the people of the plains designate the humble-bee, but is not half the bulk of that insect, though larger than the domestic bee of Europe. It is of a darker color

its nest under projecting ledges of rock, overhanging, steep, mural precipices, in a situation almost inaccesible to bears and men. The hive con-tains a large quantity of both wax and honey. The latter, if gathered and honey. The latter, if gathered before the month of Bhadra, is fully equal to that of the domestic bee, but in that and the following months is said to produce intoxication followed by stupefaction. The effect is with some probability ascribed to the bees working on the flower of a species of aconite, which is in bloom in Bhadra and Asharh, and which, growing high up the mountain, is beyond the flight of the domestic bee."

That the virtues of the honey depend on the particular pasturage the bee has found, is well known, and every school boy has read in Xenophon of the deleterious effects the honey of Trebizond had on the soldiers during the retreat of the Ten Thousand. Narbonne honey owes its peculiar excellence to the rosemary plant, and the best honey years in India are when the strobilanthes is in bloom. There are many species in this genus, and they flower once in seven or ten years, about the month of May. Immediately the flowers wither and and fall off, the plant itself dies, a new crop afterwards springing up from the seed. This flower has a strong and sweet scent, and whenever it is in bloom colonies of bees migrate from all parts of the country to feast on the honey and to rear their young. At such times honey becomes plentiful and cheap, and is of the finest flavor.

The sixteenth annual convention of the Northeastern Bee-Keepers' Association will be held in the City Hall at Syracuse, N. Y., on the 21, 22 and 23 of January, 1885. The executive committee are determined to maintain the high standing and enviable reputation which the Asso-ciation has justly gained in the past, and at the coming convention they propose to outdo all former efforts. The meeting will surely be the largest and most interesting ever held in America. No bee-keeper can afford America. No bee-keeper can afford to stay at home. All are invited. All implements of the apiary sent to the Secretary, will be properly arrayed to compare favorably with others on ex-hibition, and will be disposed of or returned, as the owner directs. duced rates for board at hotels. Re-

GEO. W. HOUSE, Sec. L. C. ROOT, Pres.

To Canadian subscribers let us say that we have made arrangements so that we can supply the Farmer's Advocate of London, Ont., and the Monthly BEE JOURNAL for one year



For the American Ree Journal.

# Hibernation,-In Rhyme.

WM. F. CLARKE.

Rest,—busy little workers all,— Through winter's dreary hours; Into a peaceful torpor fall, And hoard your latent powers.

Your domicile is not a sieve With air-drafts coursing through-In such a house I could not live, Neither, my pets, can you.

You are not buried in a pit. A cellar, or a clamp; Never by ray of sunshine lit,— Cheerless, and foul, and damp.

Your dwelling is a chaff-packed room Raised above toads and mice, Meant for a home, and not a tomb, Propolized tight and nice.

A column of heaven's purest air Beneath your cozy nest, Your native instincts will prepare To suit your moods of rest.

Whene'er Jack Frost relents his grip, And there's a thawing day, Rouse up! a little honey sip, And have a spell of play.

Dance on th' alighting-board a jig, Or pirouette on high; No need to wallow, like a pig, When you can have a fly!

Don't eat a bit of pollen, dears, While you are on the frolic,
For, if you do, James Heddon fears
You'll die of bilious colic!

Your play-spell over, tightly hug And cluster close together, Then each can sleep, "snug as a bug," All through the coldest weather.

Soon blust'ring March will shake you up, And whisper loud of spring: Your master, then, a little cup Of sweet, will to you bring.

The queen, her sleepy head will scratch, And take the hint to lay, Then you must seek the willow-patch Upon the first fine day.

With catkin pollen feed the brood And nurse them up to strength, Till nectar from the maple-wood, Rewards your search at length.

Then, as the hive grows populous With vigorous young bees, Each of you, without "muss or fuss," Depart this life in peace.

Your course complete-your work well done—
Die without pain or fear:
And thus your history will run,
"ESCAPED THE DIARRHŒA!"

Speedside, Ont.

The Union Bee-Keepers' Association of Western Iowa will meet in Stuart, Iowa, at 10 a. m. on Saturday, Dec. 27, 1884. All who are interested are invited to attend.

M. E. DARBY, Sec.

The Willamette Valley Association will hold its second meeting at La Fayette, Oregon, on the third Tuesday in June, 1885. All who are interested are invited to attend.

E. J. HADLEY, Sec. F. S. HARDING, Pres.

For the American Bee Journal.

# Few Uncapped Sections in the Fall.

G. M. DOOLITTLE, 40-80.

How to manage our bees so as to secure the greatest yield of comb honey, is a question of great impor-tance to all those who are engaged in producing such honey for market, hence we often have articles on this topic giving us instruction regarding But comb honey is of little value unless thoroughly sealed or capped over; and from the reports which I get telling of much unsealed honey, it would seem that, "How to manage our bees so as to have few uncapped sections in the fall," is a question of nearly as much importance as the first; yet it is one about which very little is said in print.

For years I was troubled by having from ¼ to ½ of the combs in the sections not fully sealed at the close of the honey harvest, which were only salable at a reduced price; but of late I have very few of such even in a poor season. After experimenting poor season. After experimenting for a year or two regarding the mat-ter, I became convinced that the cause of the trouble was in giving the bees too many sections, and especially con-ducive to this was the plan of tieringup sections late in the season. How often have I, years ago, spoiled a promise of an abundant yield of comb honey by tiering-up four or five days before the honey harvest closed!

To tier-up sections profitably requires considerable tact, and especially do we want a thorough knowledge of the boney resources of the field which we occupy. I think that there is too much injudicious talk in some of our bee-papers regarding our not allowing the bees under any circumstances to cluster on the outside of the hive, the idea being generally conveyed that when bees thus cluster out they need more room.

Now, it depends upon when this clustering out occurs, whether more room is needed or not; and hence I said "injudicious talk." If the clustering out occurs at the commencement, or in the heighth of the honey harvest, then more room should be given; while if at the latter part of the honey harvest, or in a time of honey dearth, no more room is needed; for more room at this time results in one case in many unfinished sections, and in the other to an absolute waste of time used in enlarging the hive. To illustrate: During the past sea-son we had a day and a half of good honey secretion, a little past the mid-dle of the basswood bloom. As, at this time, I had on each hive, section room of only about 20 pounds capacity, the bees began to be crowded out; and hoping that the weather might yet be favorable for a week or more, I spread the sections on a few hives by placing some empty ones between those nearly full, giving at most only about 35 pounds capacity, while when all is favorable, I use 60 pounds capacity. The result was that the bees immediately took possession of the empty sections, while

the weather turned unfavorable again. and when the season was over, I got no more than 5 to 10 pounds of capno more than 5 to 10 pounds or cap-ped honey from these hives, while those not touched gave 20 pounds of nice, capped honey. In this case the bad weather was the cause, for the spreading was seasonable, but in former years I had been the cause by spreading or tiering-up but a few days before the honey harvest closed.

Again, after the basswood bloom failed, there came on a very hot spell when not a bit of honey was to be obtained, and the result was that the fronts of my hives were black with bees. According to the advice with bees. above alluded to, I should have given more room, and if the bees then persisted in clustering out, I must take my smoker and smoke each colony until they all went in and staid there. Nonsense! At such times the bees are doing just as much for the benefit of apiarist, hanging on the outside of the hive, as anywhere.

But to return. My plan of opera-tion to secure all capped sections is as follows: When the bees show, by building little bits of comb here and there about the hive, that they are ready for the sections, I put on sections to the amount of about 20 pounds, and leave them thus until the bees are well at work in them, when they are spread apart and about 10 pounds more of room given them. When this room is fully occupied, I give room at the sides of the hive of about 15 pounds capacity; and were I using the tiering-up plan I should have my surplus arrangement so arranged that at this time I could raise up about one-half of the sections al-ready on, putting empty sections under them instead of raising up the whole 30 pounds, thus giving them more room, a little at a time, as the

bees have need.

bees have need.

By the time the bees fully occupy the 15 pounds of room given at the sides, the first 20 pounds given them is ready to come off; and when this is taken off, the partly filled sections at the sides are raised by cases and put in the places of those which have been taken off, while empty sections are given at the sides, for from 15 to 30 pounds according to the size of the 30 pounds according to the size of the colony. Thus I keep taking off and putting on sections, taking the full from the top and putting the empty sections at the sides, until the season begins to draw toward its close, when as fast as those partially filled sections are taken from the sides to replace the full ones taken from the top, the side-spaces are closed up till all are on top. Then as fast as the sections are finished there, the top-space is contracted till only the original 20-pound space remains. In this way the bees are given all the space they really need, while the chance for many un-capped sections in the fall is quite

small.

is a wrong policy to adopt; while the giving of a small amount of surplus room as needed, seems to me to be a wise course to pursue. I now use a section 53%x3½x2 inches, outside measure, and find that while it works to the best advantage in my hives, it also sells for fully as good a price in all of our Eastern markets as does the 44x414 or one-pound section of honey.

Borodino, O N. Y.

For the American Bee Journal

# Home-Made Honey-Extractor.

E. A. THOMAS.

While visiting a friend of mine in Massachusetts, I had the opportunity of seeing and testing his new honey extractor, which, for rapidity and ease of manipulation I have never seen equaled. My friend is an excellent machinist, and made this extractor himself. While recognizing the fact that the cost of the machine will prevent its coming into general I am inclined to believe that it would be desirable for those who run their apiaries for extracted honey. and have considerable extracting to The following is a description of it, as near as I can give it:
The can, which is made of block-

tin all in one piece, is 3 feet and 4 inches high and 23 inches indiameter; there is a space of 12 inches under the comb-basket, giving a storing capacity of about 200 pounds. The combbasket is 18 inches deep and 141/2 inches square, and is attached to a shaft running in a standard in the centre of the can. The bearing is so arranged that no honey can get to it, and can, therefore, be kept well oiled. A reversible basket can be used if the operator so desires. Now I am coming to the part wherein it differs from all other extractors which I have ever seen. On the lower end of the shaft to which the basket is attached, is a beveled gear running in a corresponding one on a horizontal shaft extend-ing from the centre under the can, to the circumference. Here, again, is another set of beveled gears, carrying the motion to an upright shaft running in boxes outside of the can. The upper end of this is geared to a 6-inch gear attached to the side of the can which has a handle for turning. small gears are 1½ inches in diameter, and the shafts are 5% of an inch.

From the above description the will perceive that there is reader nothing on the top of the can over the comb-basket to interfere with the putting in and taking out of combs, or the removal of the basket for clean-ing; also that the turning-wheel is upright, which gives a much easier and more natural movement than the round and round motion of a horizontal wheel. Perhaps the reader may think this is of but little consequence, but let him turn the extractor all day. as some have to do, and I think he will change his mind.

easier to run than any I ever saw. will be lost. If no bees are found on use a queen-excluding honey-board:

This is due in part to the well-fitting bearings and the accuracy of construction. The whole machine is well and solidly built, and there is no shake whatever to the comb-basket. Only a slow motion of the turningwheel is required to throw out the honey, and the comb-basket can be revolved very rapidly, if necessary, with an extra exertion on the part of the operator.

Another good thing about it is the rapidity with which it can be taken apart and put together. The combbasket can be taken to pieces, every thing taken out, and all put together again in less than a minute.

Rural New Yorker.

# The Hunting of Bee-Trees.

PROF. A. J. COOK.

I am requested to give directions for finding the haunts of bees in the forests. I gladly do this, though un-less one wishes to hunt bees for the pleasure, only, it is a non-paying busi-The time spent in finding the ness. bees, the usual condition of the colony with crooked combs, and little honey, and the trouble to secure the bees honey, and combs in such a state that they will be of value, together with the fact that the owner of the tree does not like to have his trees disturbed, even though he may give his consent, make this business as a business anything but desirable.

To understand bee-hunting, we have only to remember that bees like sweets, and are sure to find and to sip them; and that the bees, as soon as full, will circle about, as if to mark the locality, and then dart off straight toward the tree or hive where they

are to store the nectar. In late fall after bees have ceased to gather honey, we may soon attract them by burning an old piece of honey-comb; at other times they may be taken from the flowers. To "line" bees one should have a small box without a bottom, and with a movable glass top. This box should be six inches each way, and on one side there should be a shelf within, three or four inches wide on which a piece of comb may be laid. With this box and a bottle of water sweetened with honey, or sugar, one is prepared for operations. When a bee is discovered in the woods on a flower, the box is placed over it, and as soon as the bee commences to sip the sweet liquid which was turned into the empty cells of a comb previously fastened to the shelf in the box, the cover should be removed. The bee will soon fly, and must be watched care-fully. After a few circles, each circle bending toward its home, the bee will dart off in that direction. Soon it will return with others, and as soon as the line is made certain, the hunter can go a few rods to one side and find another line, and of course where these lines meet will be the tree. If in the region of a bee keeper, one must be careful or the lines will take Notwithstanding the fact that the must be careful or the lines will take extractor is geared up so much, it is him to some one's hives, and his time

the flowers, then the bees can be attracted to the sweets in the box by burning the comb as suggested above.

When once found, it is better to climb up and cut the bees out rather than to fell the tree, if this is possible. A little smoke and the January will so frighten the bees that the dan A little smoke and the jarring ger from stings is very slight. It takes some experience to line bees quickly; but old bee-hunters will find bee-trees in a surprisingly short time.
Agricultural College, Q Mich.

For the American Bee Journal.

# Queen-Excluding Honey-Boards.

W. Z. HUTCHINSON, 68-94.

Of late, quite a number of inquiries have come to me asking for informa-tion in regard to the Heddon skeleton or slat honey-board; and from the tone of many of them, it is evident that the writers regard this board as queen-excluding. Such is not the case; Mr. Heddon has never claimed that they are. He says that they discourage, but do not prevent the queen from entering the surplus de-partment; and so far as my experience goes, Mr. Heddon is correct.

Whether a queen-excluding honeyboard is needed, depends upon the size and shape of the brood-nest, and the method of management. With a large brood apartment, and especially one which approaches a cube in shape. there is less inducement to the queen to invade the surplus department than with a flattened or small broodnest. The advantages of a small, flat brood-nest are, that it is kept so full of brood that there is little room in it for honey, and the surplus department is brought so near the centre of the brood-nest that nearly all the honey is stored in the surplus department and sold for at least twice as much per pound as sugar will cost to feed the bees for winter. Sugar is a safer food for winter than honey; and it is hoped that these small broodnests will be free from pollen upon the approach of winter.

With an ordinary eight-frame, Langstroth hived filled with combs, the queen has so seldom left the broodnest when working for comb honey, that I should not care for a queen-excluding honey-board were it not for the swarms. Let a swarm be hived upon empty combs, and the queen will not go into the sections; but let it be hived upon empty frames, and let there be foundation or comb in the sections, and the queen will make a brood-nest of the surplus department; she will also do so if the brood-frames are filled with foundation, and the sections with comb. In working for extracted honey, the queen is quite likely to take up her field of labor in the surplus department.

I am strongly in favor of having the brood occupy one part of the hive, and the honey another, to a greater extent than has yet been generally accomplished; and to secure this result, I know of no better plan than to

The objections to the perforated zinc for a queen-excluding honeyboard are, first, its cost; second, its lack of rigidity. When first put on it does very well; but, of course, the bees stick it down and connect it by means of brace-combs, with the frames below, and when it is removed it is liable to be bent or kinked so that when again placed upon the hive the bee-spaces above and below the zinc are not perfect. Where the space becomes too small, the bees stick the zine fast with propolis; where the space is too small, they build bracecombs.

To make the Heddon honey-board queen-excluding, I have placed the slats five-thirty-seconds of an inch apart, and such boards are a success; but the difficulty is in adjusting the spaces to a nicety, and keeping the slats in place. To overcome this difficulty, I have, during the past season, used honey-boards of perforated wood. Their construction is as follows: Take lumber ¼-inch thick, cut it into lengths as long as the hive, and of such width that three pieces will cover the top of the hive. With a saw of such thickness that it will not a leaf of the hive. a saw of such thickness that it will cut a kerf five-thirty-seconds of an inch in width, cut slots into these pieces of wood, something after the manner of the perforated zinc. I make the slots about 3 inches in length, one inch apart, and they "break joints" as do the perforation in the zinc. A frame of %-inch stuff as large as the top of the hive, has the inner corners of the end-pieces rabbeted on one side, and into these rabbets are placed the perforated rabbets are placed the perforated pieces, where they are fastened with brads. This gives a honey-board with a raised rim of about 3% of an inch around its edge, which allows a bee-space below the sections. Such a honey-board always preserves the bee-spaces perfectly, and, as yet, no queen has passed through them.

The perforation in a zinc honeyboard need to be a trifle smaller, to restrain the queen, than in one 14 of

an inch thick.

After using queen-excluding honeyboards for two years, I am unable to see that they lessen, or in any man-ner affect the amount of surplus honey secured,

Rogersville, & Mich.

For the American Bee Journal.

# That New Zealand Comb Foundation

G. ELLIOTT.

In the BEE JOURNAL for Sept. 3, 1884, there is a letter from "Another New Zealand Bee Keeper," and an article copied from the New Zealand and Australian Bee Journal about our New Zealand comb foundation made by Mr. Hopkins; and as "Another New Zealand bee-keeper" wishes to inform the readers of the BEE Jour-NAL that Dr. Dalziel had no grounds for getting the foundation for getting the foundation analyzed. allow me to give my account of it, as it was chiefly through me that the Doctor acted as he did.

Dr. Dalziel showed me some samples of comb foundation which he had received from Chicago, and these looked so very different compared with the foundation which we were getting from Mr. Hopkins. The color getting from Mr. Hopkins. The color was the same as that of the beeswax which I had always obtained from my own bees; the foundation of the cellwalls was deep, thick and soft; the sheet was more pliable without breaking; and, in fact, it was in every way such a superior article that it looked as if, with its use, there would be none of the trouble which I, and all the bee-keepers to whom I had spoken on the subject, had had with Mr. Hopkin's foundation, which was so brittle, and sagged so much after being put into the hive, that I considered the best thing that I could do would be either to get my foundation from America or possess a machine and make my own.

with this view, I inquired from a traveler of Messrs. Porter & Co., importing ironmongers, whether they had any American bee-appliances. He said that they had on hand a honey-extractor, a machine for making comb foundation, and way to be ing comb foundation, and wax to be used with the machine, and he be-lieved that there were some other implements among them. I said that a foundation machine was what I wanted, chiefly, but I would use my own beeswax. He said that the wax which they had was much cheaper, as it was a composition largely used in America, but it was not pure bees-wax. As he did not have these arti-

prices, so I asked him to inquire and then let me know.

A short time afterwards I saw him again, and he told me the price of the extractor and foundation machine, but said that they had no more wax, as it had all been sold and gone to the Thames. I asked him who had bought it, and he said, "I think that it was Mr. Hopkins." He said that it had been a sample lot sent over

cles on his list, he did not know the

with the machines.

A few days after the above interview, as Dr. Dalziel was going into Auckland, I asked him to call at Porter's and look at the extractor and foundation machines for me, to make what inquiry he could about the composition wax, its price, etc., as the traveler's statement might, perhaps, account for the difference in the two specimens of foundation. I believe when the Doctor made the inquiry I believe about the wax, the employes at first said that they had never had any wax; but when he informed them of what the traveler had told me, they said that they remembered that such a parcel did once pass through their hands, but they could not remember anything very definite about it. One of them promised to examine the books and ascertain all he could about it, but if it was a sample lot, it was very likely that there would not be any entry of it.

I afterwards saw the letter which the Doctor received, stating that no record of the parcel could be found; and we thought that, considering the possible truth of the traveler's state- their own instincts what was best for

ment, and the evident difference in the two lots of foundation, that there were good grounds for suspecting the purity of Mr. Hopkin's comb founda-tion. We agreed to have it analyzed by Mr. Pond, of Auckland, and forward the report to the New Zealand Bee Journal whatever the report Bee Journal might be.

Auckland, N. Zealand, Nov. & 1884.

The foregoing explanation is given in the BEE JOURNAL as requested, because it has twice decided (see pages 155 and 571) that the sample of beeswax sent here from New Zealand was a "pure article."

The trouble, no doubt, came from the blundering of the traveling salesman of the importers, who called the foundation mill "a machine for making artificial comb." Either he did not know what he was talking about, or the importers had obtained some 'paraffine;" and in saying that 'spurious wax " or "paraffine" was "a composition largely used in America" in the manufacture of comb foundation, he was very far from the truth. We are informed that an Ohiomanufacturer has been using some asan experiment, and that is about all that can be said about it. Now let the matter rest.—ED.]

For the American Bee Journal.

# Whom Can We Believe?

JOSHUA BULL.

I believe that I have carefully read every article that has appeared in the BEE JOURNAL for over a year, especially every thing bearing upon the vexed question of wintering bees; and I find so much diversity of opinions, and apparently conflicting theories advocated by those who claim to be experts in bee-keeping, that it is enough to confuse and be-wilder those who have had no experience in the business. How are we to decide whether it is best to give our bees honey or sugar for winter food, upward or downward ventilation, to place them in the cellar, in a repository, or to leave them on the summer stands? One says, "Remove the bot-tom-board and place the hive upon a tray of dry sawdust;" while another recommends a perpendicular column of air underneath the hive. Now, with all this diversity of teaching, with so many different theories urged upon us, how are we to know whom to believe? Why, it seems to me that this wintering problem is about as far from being settled as the ques tion of an "open sea around the North Pole!

Are bees deficient in instinct? was quite surprised when reading Mr. Heddon's statement, on page 501, where he said, "I have found that the judgment of man knew better than bees." Again, on page 550, he says that "Dame Nature either forgot to endow them with it, or did not care for their failure, or herself made a failure; for they do not at all times succeed any better than the tender plant against the drouth, the beautiful shrub against the frost of winter, the sparrow against the hawk, the minnow against the shark, etc." Now, with all due respect for Mr. H., I wish to be allowed to express my objection to his assertions, for therein appears to be a grave charge against the Creator, in that Mr. H. accuses Him of indifference about his works, or of failure to accomplish what He

intended. Let us examine this matter a little before we accept it. Mr. H. may be fully convinced in his own mind that he knows better than the bees what they need; but has he demonstrated it sufficiently clear to convince others that such is really a fact? We, of course, leave every one to be his own judge about that; but in regard to the reasons which he offers in support of his assertion, that bees are deficient in instinct, I wish to say: 1. I am not aware that plants and shrubs have 1. I am any instinct at all, or any powers of volition whatever, and, therefore, can see no similitude in the comparison; and so far as the sparrow, minnows, etc., are concerned, when they are pursued, overtaken and devoured by predatory animals stronger than themselves, it is no indication that they are deficient in instinctive knowlfor self-preservation, but only that they are compelled to succumb to powers greater than their own; simply the weaker is overcome by the stronger. I believe, and, no doubt, Mr. H. will concur with me in this, that if the sparrow, minnow, and all others of the weaker creatures of creation could only receive such assistance as would enable them to carry out their instinctive impulses for self-preservation, that they would never allow themselves to fall a prey to the destroyer; and, no doubt, this principle will hold good with bees as well as with anything else. Therefore, it is clear to my mind that in order to secure the best results, we should not try to controvert or in any way inter-rupt the plans which the bees devise for their own preservation; but when we can render them such assistance as will enable them to consummate those plans, then, and not till then, do I be-lieve that this wintering difficulty will be successfully overcome. I am slow to believe that instinct ever leads astray or guides in the wrong direc-

"And reason raise o'er instinct as you can, In this 'tis God directs, in that 'tis man."

The Tree-Trunk Principle.—It is not in my nature to accept any theory or believe any statement simply because some certain person has said it is so, unless that person can produce some evidence or argument which will appeal to my understanding or in some way accord with my own experience; but I am quite inclined to think that Messrs. Wm. F. Clarke and A. H. Dutton are leading off in the right direction on this win-

tering question; and as a reason for this belief, allow me to give a little item of my own experience.

Some 35 or 40 years ago, when I was a mere lad, my father set me to work to make a bee-hive on the following A box-hive 26 inches high by 16x12 inches, and in the lower part of this box-hive were fixed three honey drawers on each side, 6x6x12 inches, thus leaving an open space between them of about 4x12 inches, and 18 inches high. Over these drawers was placed a floor or bottom-board with a slot or passage-way 1x12 inches in the centre, and above this was the broodchamber, 16x12x8 inches, then a top board or cover was put on and nailed down tight, and a door upon the back side to exclude light from the drawers and to make all snug, completed the hive. (I write this from memory, and the dimensions may not be exactly correct, but I think that they are nearly so; the principle is the same anyhow.)

A swarm of bees was put into this hive, and the whole thing was put upon a bench about 14 inches high, with blocks placed under each corner of the hive to raise it about % of an inch, and there it stood just in that position during summer and winter. The bees filled it with comb clear down to the bottom of the hive; but in winter they would all cluster in this upper chamber, thus leaving an air-space below them, 12x4 and 18 inches high, except what space the comb occupied. In this condition they lived 15 years in succession without

once being winter-killed.

When Mr. Clarke announced his new theory, it at once recalled to my mind the above-mentioned facts, and I felt quite inclined to believe that his idea might be correct, and, if it does not entirely solve the difficulty, it may prove to be a very important principle, and, therefore, a step in the right direction.

Seymour, O+ Wis., Dec. 6, 1884.

For the American Bee Journal,

# First Queen by Mail from Jerusalem.

ANDREW H. DIVEN.

I would say to the bee-keepers generally, that on June 23, 1884, I received a Palestine queen from Philip T. Baldensperger, of Jerusalem, Palestine, direct by mail, the cage being post-marked at Jerusalem on May 28, 1884

The queen came through in good condition, no evidence of having suffered from confinement. About one-half of her attendant bees were dead. She began laying in less than a week after her arrival, and is now in winter quarters with a full colony of Palestines. Mr. B. and myself think that this is the first queen sent direct by mail from Palestine to the United States. If we are correct, we modestly ask that it be so placed on record; if we are in error, we invite correction.

Mr. Baldensperger wrote me as follows on Aug. 6, 1884, dated Jerusasmoke there is no necessity of blow-lem: "I am very glad to know that ing in a large amount, the smallest

the first queen mailed from Palestineto the United States arrived safely,
and that she began to lay, too. It isa great satisfaction to know that the
confinement of 26 days did not injure
her. In the British Bee Journal of
Sept. 1, 1884, is a notice of an American queen which crossed the Atlantic,
and the correspondent says, "Probably this is the first queen which
crossed the Atlantic." I think thathe refers to the "golden queens" asbeing the first; for Messrs. Benton,
D. A. Jones and others occasionally
mailed queens from Syria and Cyprusto England first, and after some rest
they were sent on to America; but
the queen which I sent you went
through from Bethlehem via Jerusalem to the United States in 26days."

The cage in which the queen came, I send to be placed in the Museum. Seneca, ∼ Pa, Dec. 9, 1884.

[The cage is placed in the Museum, as requested.—ED,]

Home Farm.

# To Beginners-Manipulation.

J. E. POND, JR.

I have been asked why some one of experience does not write a chapter upon manipulation. I presume the reason is that no one has thought that there was any necessity for so doing, as it was supposed that every one knew just how to do this simple work; the question having been asked, leads me to think that an article on the subject might prove of some interest—to the novice if to no one else.

In the first place, it should be well understood that a colony of bees should not be examined or manipulated unless for a purpose. The promiscuous opening of hives, pulling out the combs and disturbing the cluster in the spring, or the busy worker in warm weather, has worked much harm, and the novice will do far better in his work when his apiary becomes so large that he cannot subject his colonies to a daily overhauling.

Again, colonies should not be examined at all save to perform some actually needed work, (such for instance as an introduction of a queen or something of the kind), except in pleasant weather, and when it is warm enough for the bees to fly safely. The beginner who has it all to learn in the way of practical work in the apiary may, however, take some particular colony and experiment with that alone, by opening and examining it until he gains that confidence and expertness which comes from practice alone; for this is a part of his apprenticeship, but it should be discontinued as soon as he is able to perform the work expertly.

To examine a colony, the first thing to be done is to blow a little smoke in at the entrance, and, by the way, at no other time save when using smoke should one stand in front of his hives—all operations should be performed from the rear. In using smoke there is no necessity of blowing in a large amount, the smallest

whiff is just as good as though the bees were suffocated with volumes of it.

After blowing in the smoke, the operator proceeds to the rear of the hive, and waits a moment till the bees are filled with honey, then he will proceed to take off the cover of the hive and lay it to one side; the next thing is to remove the covering mat from the frames; this, as well as all motions made around a bee-hive, should be done slowly and deliberately. Bees seem to detest any quick motions, and will resent them with a sting, when otherwise they would be as amiable as you please. After removing the mat, the center frames on one side or the other should be crowded together a little to give room to remove the outside frame. As soon as sufficient space is formed, the outside frame should be carefully taken out, examined for any desired purpose, and then carefully stood up beside the hive, or, what is better, carefully set into an empty hive or a light box made for that especial purpose.

After the first frame is removed, all subsequent manipulation comes easy enough, for all there is to be done is to take out the next frame, examine and replace it in the position occupied by the first one, and so on till all the frames are looked over, when the first frame can be set in the place of the last one taken out. In case, by reason of any inequalities or bulges in the face, it does not fit right, these ine-qualities may be shaved off with a sharp knife, or the frames may be set again in their original position. the first method is much the easier, the apiarist should take care to see that each comb is interchangeable, not only with every other comb in the hive, but with every other comb in the whole apiary. This will be the the whole apiary. This will be the means of simplifying his work, and making it easier to perform than it otherwise would be. Time is money, and every step taken to save time in an apiary is one in the right direction, and will be well appreciated on a day with the temperature at 100 F. or more, and fifty colonies to examine before night.

The manipulating of a colony is the simplest work of the apiary as it is purely mechanical and manual. and can be easily learned by practice. To know when and why to manipulate is a far more serious undertaking, and one that requires a vast amount of experience and study to fully learn, but when learned, it comprises the larger portion of what is required to make an expert apiarist.

Foxboro, O+ Mass.

For the American Bee Journal.

## To the Bee-Keepers of Indiana.

I want to talk with all the bee-keepers of Indiana. Bee-keepers, the time is set for our annual convention on Jan. 22, 1885. How many will be present? For almost one year the executive committee of the State Association have spent much time in the way of talk and correspondence in the

interest of our Society. At the State Fair we had a glimpse of our reward, a beginning of what we hope will be a grand success in the near future. All those who are sorely afflicted with remorse that they did not help us out at the Fair, can now have a chance to redeem themselves by coming and bringing as many as they can to the State meeting.

We hope that the week of heat and dust that we spent at the Fair in making the acquaintance of bee-keepers, and in making bee-keepers acquainted was not time spent fruitlessly. There is no reason why the Bee-Keepers' Society should not be, I will not say one of the largest, but the largest society which meets in the Agricultural rooms during this winter. We have the numbers and talent to make it the finest organization that will assemble in this city this winter.

I was surprised to meet so many women bee-keepers at the Fairwomen who represent from 10 to 50 colonies; women who had the stamina to make a success of whatever they turned brain or hand to. Now, sister bee-keepers, assert your rights, overcome every difficulty and present yourselves at the State meeting. Let it be a meeting long to be remembered. If you have not learned all about beekeeping, you can learn more in two days at a meeting of this kind than in a whole month of reading, for you will not only hear of the successes but of the failures of bee-keepers. On the other hand, if you think you have learned all, come and impart your knowledge to others. This meeting will be an important one. There will be many matters of interest brought before the Society in which we wish to have the voice of as many bee-keepers as possible.

MRS. C. ROBBINS, Pres.

For the American Bee Journal.

## International Bee-Keepers'Congress.

J. P. H. BROWN.

With this I send a call for an International Congress of Bee-Keepers to be held on the World's Exposition Grounds at New Orleans. La., on Feb. 24, 25 and 26, 1885. The time selected seems to suit the majority of bee-keepers the best. This has been ascertained by much correspondence, The Exposition offers a large hall and space for exhibits free of charge. Rates of board and quarters for bee-keepers attending the Congress will be made known through the BEE JOURNAL as soon as possible.

It is likely that the Exposition will withhold all apiarian exhibits until the week of the Congress. The prospects for a large attendance are very flattering. I hope that honey-producers will come well prepared to fully tackle the question of the disposal of the honey product. The question of honey-production, and all the methods and schemes for securing the greatest surplus have been most thoroughly ventilated by our bee-conventions, and now it is time to consider the subject of the disposition of the pro-

duct to the best advantage for the producer.

I appeal to the bee-keepers of America to send representatives to this Congress. In this matter no section or country should be known, but wherever intelligent apiculture is practiced, its interests should be represented.

Aside from the Congress, the sight of the foreign exhibits will alone be worth all the expense of the trip. So, fellow bee-keepers, lay aside your cares and labors for a week or two-strain a point—you have only got one life to live in this world—pack your valise and go.

Augusta, 0+ Ga., Dec. 9, 1884.

For the American Bee Journal,

# The International Congress.

Ti is proposed to hold an International Bee-Keepers' Congress on the World's Exposition Grounds at New Orleans, La., Feb. 24, 25 and 26, 1885. An interesting programme of subjects of great importance to every bee-keeper in America will be presented and discussed. The disposition of our honey product, with a view to secure better prices will be fully considered. At the same time there will be an Exhibit of Bees and Apiarian Supplies. Fuller particulars will be given hereafter. At the time selected, the Exposition will be at its best, and excursion rates low. The bee-keepers of our country should lay aside business for a week or two, and make every exertion to attend this Convention. Come prepared with facts and statistics, and ideas arranged, to take part in its deliberations.

S.
Dr. N. P. Allen, Smith's Grove, Ky.
W. Williamson, Lexington, Ky.
Dr. O. M. Blanton, Greenville, Miss.
P. L. Viallon, Bayou Goula, La.
Judge W. H. Andrews, McKinney, Tex.
W. S. Hart, New Smyrna, Florida.
S. C. Boylston, Charleston, S. C.
Dr. J. P. H. Brown, Augusta, Ga.
H. C. Austin, Austin's Springs, Tenn.
R. C. Taylor, Wilmington, N. C.
J. W. Porter, Charlottesville, Va.
S. Valentine, Hagerstown, Md.

For the American Bee Journal.

# Bee-Hive Ventilation.

J. F. LATHAM.

On page 756, Mr. S. Corneil, in attempting a criticism of the ideas advanced by some of the correspondents of the Bee Journal respecting the ventilation of bee-hives, including myself in the number, writes: "I notice that some of the contributors are in error in regard to the carbonicacid gas produced by the respiration of a cluster of bees."

"These writers seem to think that because carbonic acid gas is more than half as heavy again as air, it falls to the bottom of the hive, and provisions should be made for getting

rid of it at that point."

present? For almost one year the executive committee of the State Association have spent much time in the way of talk and correspondence in the subject of the disposition of the pro-

shaken up will re-arrange themselves in the order of their identity, so will an equilibrium be sought by air of different degrees of temperature. This operation of natural laws is most sublimely illustrated by the phenomena which culminate in our thundershowers. The lower strata of the earth's atmosphere is rarelied by heat earth's atmosphere is rarened by heat from the sun's rays, and ascends until an equilibrium is produced by its mingling with the upper, cold strata of the cloud regions; the colder air rushing in and supplying its place. The noxious gases from the earth's surface, diffused in those warm, humid accumulations are re-arranged. humid accumulations, are re-arranged when the gases with which they are mingled assume their distinctive positions or characteristics, and the positions or characteristics, and the charm of nature is dissolved in the refreshing rainfall; while the noxious elements vent their "fery spume" in the lightning's flash and the thunder's roll; "dissolving" to again unite with the surrounding elements, and the surrounding elements, and the surrounding elements. again perform the eternal rounds of collection and diffusion as per the universal laboratory of the universe.

Aside from the electrical display wherein does not that grand exhibition of nature's process of purifica-tion faithfully illustrate the more humble process by which the domi-ciles of our generous workers of the apiary may be freed from the noxious gas incidental to the surroundings of all animate life in domesticity? especially such surroundings as the compulsory confinement which bees wintered in our Northern climate must necessarily be subjected to.

I do not claim that lower ventilation is the only outlet desirable or needed to free the bee-hive from the foul accumulations emanating from the exhalations of its inmates; whether respiratory or by transpiration, I would not have a reservoir of impure air in the lower portions of the brood-nest. Let us see: The paragraph alluded to in Mr. Corneil's critique, reads as follows: "When in a semi-dormant state the denizens of the hive require but little oxygen to support life or neutralize any harmful effects resulting from the accumula-tion of carbonic-acid gas in their surroundings." If there is anything in that sentence unrealistic or inapplicable to a cluster of bees in winter repose, I have been, as yet, unable to discover it. The next sentence reads: "As this gas, when occupying space in quantities detrimental to animal life, moves earthward, it is easy to comprehend how readily the inside of a bee-hive may be freed from its bad effects by preserved development." effects by proper downward ventila-tion, accompanied by an impercepti-ble upward ventilation, i. e., an up-ward ventilation not strong enough to produce a rapid current of cold air through or around the cluster."

I did not intend to advance the idea that the gaseous accumulations would sink to the bottom of the hive and roll out! But, by giving the proper ventilation at the entrance, and a

"in error" if the paragraph on page 342 embodying my ideas of bee-hive ventilation is called in question.

As a compound of liquids on being such an arrangement, if I am correct, of the hive would be continuous. Such an arrangement, if I am correct, would be consistent with natural laws govening the circulation of ærial fluids, i. e., as the air becomes warmed and viciated by the bees, pure, cold air from the outside would pass in at the entrance, and a portion of the impure air in the lower portion of the brood-chamber would pass out at the same opening; thus forming a gentle flow of continuous supply and exhaust.

On opening the outside entrance to a lighted and heated room on a frosty winter evening, the process of arial circulation may be readily observed by a person standing outside, as the heated, humid air rushes through the upper portion of the door-way, sparkling, into the freezing atmosphere, and the cold air from without moves in to fill its place through the lower portion of the door-way. Right here is the germ contained in Mr. Clarke's

"Ariadnean clew;" the basis of hiber-nation, or hibernal requirements. This, I think, sufficiently elucidates the import of the criticized paragraph; and if I construe the language of Mr. Corneil's critique correctly, his illustration as fully delineates its meaning as I have done. But enough. "Too much dispute puts truth to flight." Cumberland, 9 Maine, Dec. 8, 1884.

# Local Convention Directory.

Time and place of Meeting.

Dec. 27.—Union, at Stuart, Iowa.
M. E. Darby, Sec.

1885. Jan. 6.—Southern Wisconsin, at Janesville, Wis. J. T. Pomeroy, Sec.

Jan. 14,—Central Illinois, at Bloomington, Ills. W. B. Lawrence, Sec.

Jan. 20, 21.—N. W. Illinois, at Freeport, Ills.

Jonathan Stewart, Sec.

Jan. 21—23.—Northeastern, at Syracuse, N. Y. Geo. W. House, Sec.

Jan. 22, 23.—Indiana State, at Indianapolis. Ind. Frank L. Dougherty, Sec.

Feb. 24,-26.-International, at New Orleans, La.

May 28.-N. Mich. Picnic, near McBride, Mich. June 19.—Willamette Valley, at La Fayette, Oreg. E. J, Hadley, Sec.

In order to have this table complete, Secretaries are requested to forward full particulars of time and place of future meetings .- ED.

The eighth annual meeting of the Northwestern Illinois and South-western Wisconsin Bee-Keepers' Association will be held in Temperance Hall, at Freeport, Ill., on Jan. 20 and

JONATHAN STEWART, Sec.

Preparation of Honey for the Market, including the production and care of both comb and extracted honey, instructions on the exhibition of bees and honey at Fairs, etc. This is a new 10 cent pamphlet, of 32 pages.

Ribbon Badges, for bee-keepers, on which are printed a large bee in gold, we send for 10 cts. each, or \$8 per 100. to keep them in place, is there not

# What and How.

ANSWERS BY

James Heddon, Dowagiac, Mich.

# Rules for this Department.

- 1. Give your name and post-office address.
  2. Be brief, and to the point.
  3. Send no simple questions, such as are answered in the bee-books.
  4. Ask only such questions as are of general interest.
  5. This department is not intended for advertising any one's wares therefore questions concerning the manufacture of goods for sale are not appropriate.
  6. Direct all questions to the editor—

THOS. G. NEWMAN.

925 West Madison St., CHICAGO, ILL.

# Sundry Queries.

If I scarify or uncap the honey over the brood, will the bees carry it into the section-boxes? and will the queen lay eggs in the cells from which the honey was taken?

O. P. CRITTENDEN. Reading, Q Mich., Dec. 7, 1884.

Answer.—Yes if you do it at a time when the bees are crowding the brood department with brood; but if on the other hand it is during a time when the honey-flow is excessive, and the bees are inclined to load down the brood-combs with honey, they will re-cap the scarified cells. You will find the German bees more inclined to carry up the honey than Italians of any strain, I think.

# Bees Uneasy.

I have two colonies in the cellar under my kitchen; one is an Italian colony and the other is a colony of blacks. The former is very uneasy; the latter, very quiet. The temperature is about 40° above zero. Would the noise in the kitchen disturb them? O. McInnes.

London, Ont., Dec. 1, 1884.

Answer.—It has been demonstrated that bees will winter nicely with an anarchy of noise over their heads all winter. It is also quite probable that while such noise is not a cause of bee-diarrhea, it often is an aggravation to the cause. It seems to me that such is true in your case, for while each colony is subjected alike to noise, temperature, ventilation and humidity, one is very quiet while the other is uneasy. Again we have proof that the wrong condition is within the him. is within the hive.

# Honey-Boards, Section-Cases, etc.

1. Of what advantage is the slat or skeleton honey-board between the brood-frames and section cases? Would the bees not enter the sections more readily if the honey-board were

dispensed with and the cases placed directly upon the body of the hive?

2. Where the cases set flat upon the hives, without beveled edges on either

danger of the cases blowing off? What objection is there to beveled edges or projections, or one or the other, to keep hives and cases together, and to prevent rain from driving in?

3. Will winter feeding disturb the bees so as to induce breeding or cause uneasiness or excitement resulting in bee-diarrhea? J. W. GORDON.

Brighton, Ont., Dec. 5, 1884.

ANSWERS.--1. When I devised that honey-board I knew that such a board between the brood-chamber and the surplus comb-honey department was a thing of great convenience, and that between the brood-chamber and surplus extracting frames, almost a necessity. I was not sure, however, that the board would not sometimes somewhat deter the bees from entering the sections, and this is one of the reasons why I constructed it so that the cases fit the hive as perfectly without the honey-board as with it. Years of experiment on a large scale have demonstrated to others and to myself that the board has not the least tendency to dissuade the bees from entering the surplus department as soon as the heat and nectar will admit of their entering such department with any other arrangement. The advantages of the slat, sink honey-board are these: 1. It keeps all the brace-combs below it and away from the sections, keeping them clear of these dripping bits of comb. 2. It thus greatly facilitates the easy and speedy removal or adjusting of the surplus arrangements. 3. When running for extracted boney no bits of comb ever rest the frames at their bottoms, thus destroying their rest at their tops, which makes a host of trouble. 4. It tends to keep the queen in the lower apartment. 5. If reversed in the fall, and covered with cloth, it gives a bee-passage over the combs, prevents the cloth from being gummed, and forms a bottom to the case or super holding the absorbing material, so the same may be put off or on without any danger of scattering the contents. 6. It is a protection against robber bees when removing surplus departments.

2. No, there is no danger whatever of the cases blowing off, nor of the rain beating in, where the hives and cases are properly managed (I never have any trouble from either); and if you allow of any such bevel or projections, it greatly increases the difficulty of quickly adjusting them, as it spoils a perfect "lateral movement"—the best of all movements with which to adjust one section or story of a hive to another. It is not only a damage but an extra expense, and entirely uncalled for.

3. Sometimes it will. If you are feeding bees with pure, cane sugar syrup, which are occupying combs containing no bee-bread, I will war-



# Boards in Front of Entrances.

In referring to my proposed plan of wintering, given on page 743, Mr. Chas. Mitchell says that I should tack each board at the top edge against each hive, or the snow will against each hive, or the snow will freeze to them and keep melting on the ground so that in two or three days the boards will be leaning back and form a complete 'shoot' to catch fresh snow and fill the entrances." In reply I would say that these leaning boards used to keep the snow and wind from the entrances of the hives, rest on the bottom-board of the hive and not on the ground as he supposes; hence they are never drawn back as he speaks of; or at least, after using them for two years, I have never seen one do so. G. M. DOOLITTLE 40-80 Borodino,  $\odot$  N. Y., Dec. 8, 1884.

# Is Honey-Dew Poisonous?

Will Dr. Tinker please say whether honey-dew is poisonous or not? it cause death or insanity?

[I have had no experience with the so-called honey-dew, and know little of it, except what has appeared in the bee-papers. If reference is had to any properties that the bees may convey to it, I should say that it would affect a person no different than other sweets usually stored by the bees .- Dr. TINKER.]

# Hives Packed in Sawdust.

On May 1, 1884, I bought 7 colonies of bees in box-hives, transferred them to Quinby's improved hive, and increased them to 11 colonies. I have taken from the same 420 pounds of comb honey in one-pound sections, 264 pounds of it being white clover, sections, and the balance gathered from goldenrod and buckwheat. My bees are on the summer stands packed in sawdust, with 6 inches of the same on top, with upper and lower ventilation, and with 40 pounds of honey and bees by weight of frames. I allowed 10 pounds for bees and frames.

C. R, HANCOCK. Chatham, Ont., Dec. 4, 1884.

# Honey-Flora of Middle Tennessee.

The following is a list of the honey-producing plants, and the dates of their blooming in succession, in Middle Tennessee, 36° north latitude: During the latter part of February, white elm, alder and maple; March 1, containing no bee-bread, I will warrant that no breeding nor bee-diarrhoea will result.

The Monthly Bee Journal for a year and the pamphlet "Bees and Honey," will both be sent for \$1.

white elm, alder and maple; March 1.
box-elder; April 10, peach, pear and service; April 18, red-bud or Judas-tree; May 5, wild-cherry, raspberry and strawberry; May 10, poplar (the best of all); May 15, white clover and black locust; June 1, persimmon, black-gum and motherwort; June 5,

orchard-grass (for pollen); June 12, yellow or shittim wood; June 20, linden or basswood; June 25, chestnut and sour-wood; July 1, melilot clover, catnip and motherwort; July 25, spider-plant; August 1, sumac and der-plant; August 1, sumac and prickly-ash; August 10, heart's-ease; Sept. 1, goldenrod, flea-mint, iron-weed, boneset and asters.

D. S. ENGLAND. Sparta, Tenn., Dec. 6, 1884.

# Report of the Buckhorn Apiary.

In the fall of 1883 I put 78 colonies into my bee-cellar, and all came out alive last spring. During the past season they have increased to 137 colonies by natural swarming, and I have them all in the cellar again in good condition. I have obtained 2,000 lbs. of comb honey and 2,000 lbs. of extracted honey, and I have about half it left. F. A. GIBSON. Racine, \(\sigma\) Wis., Dec. 10, 1884. of it left.

# That Adulterated Honey.

Concerning the article of Mr. Hunt, on page 787 of last week's JOURNAL, we have the following from Mr. Von Dorn .

Омана, Neb., Dec. 6, 1884.—In reply to Mr. Hunt's article: 1. I know of no one who wishes him to go out of the bee-business. It is the adulteration business we are after, and we do not propose to let it up either.

2. He may have all the legal proof he needs as to the identity of the

honey; I have it.
3. It is presumable that the Chicago

Sugar Refining Company (one of the largest glucose works in the United States) knows what glucose is, and how to detect it. Prof. Nicholson, the chemist at the Nebraska State University, says: "I find neither starch nor paraffine, and believe (italics with a partial to be pure strained." mine) the article to be pure strained honey." He believes; the Refining honey." Company knows. Paraffine in honey is good; no wonder he believes. I proposed to have proof one way or the other before I told the public what it was.

4. I neither know nor care now who that queen-breeder was. It is of no importance to this case. If it was I who made any remarks, I presume I can furnish satisfactory proof in support of them.

5. I have no personal ill-will in the least, and if he can convince me that I am in the wrong, I will do more to right him than I have to hunt him down.

T. L. VON DORN.

The readers of the BEE JOURNAL are not interested in a personal controversy, and with the exception of the result of the third analysis (if offered for publication) this article will close this subject in our columns. All we desire is to get at the facts of the case, and these, so far, are contradictory, and, therefore, unsatisfactory. What the next will be we do not know.

# The Bee Journal for 1885.

# Premiums, \$25.00 in Cash.

To increase the number of readers of the BEE JOURNAL, we believe, will aid progressive bee-culture and help to elevate the pursuit. We, therefore, offer the following

# CASH PREMIUMS FOR CLUBS.

\$10.00 for the largest club received at this office before Feb. 1, 1885 (either of the Weekly, Monthly, or both); one Weekly counts same as 4 Monthlies.

\$5.00 for the second largest; \$4.00 for the third; \$3.00 for the fourth; \$2.00 for the fifth; and \$1.00 for the sixth largest club.

All former offers of Premiums are now withdrawn.

The price of the Weekly BEE Jour-NAL for 1885 is \$2.00 for one copy; \$3.80 for two copies (to the same or different post-offices); \$5.50 for three copies: \$7.20 for four copies: and for five or more copies, \$1.75 each.

We have decided to publish the Monthly BEE JOURNAL for next year of the same size and shape as the Weekly, (which contains about the same amount of reading matter as the present Monthly,) at 50 cents a year; two copies (to the same or different post-offices) for 90 cents; three copies for \$1.30; four copies for \$1.70; five copies for \$2.00; more than five copies for 40 cents each. The time has been extended on all portions of next year, which have been paid for at the rate of \$1.00.

Subscriptions for two or more years for one person, will count the same as each year for a different person.

# Apiary Register-New Edition.

All who intend to be systematic in their work in the apiary, should get a copy and commence to use it. The prices will hereafter be as follows:

For	50	colonies	(120	pages)	).		.9	1	00	
6.6	100	colonies	(220)	pages		 		1	25	
4.6	200	colonies	7490	nages	1				50	

The larger ones can be used for a few colonies, give room for an increase of numbers, and still keep the record all together in one book, and are therefore the most desirable ones.

The new Monthly for January will be issued this week, and the many sample copies already ordered will then be sent. We send samples free to all who wish them, or desire to get up Clubs. Now is the time to get up Clubs. Now is the time to work for the Cash premiums we offer. A large club for the Monthly can be gotten up in almost every locality.

# Create a Local Honey Market.

Now is the time to create Honey Markets in every village, town and city. Wide - awake honey producers should get the Leaflets "Why eat Honey" (only 50 cents per 100), or else the pamphlets on "Honey as Food and Medicine," and scatter them plentifully all over the territory they can supply with honey, and the result will be a demand that will readily take all of their crops at remunerative prices. The prices for "Honey as Food and Medicine" are as follows:

Single copy 5 cts.; per doz., 40 cts.; per hundred, \$2.50. 500 will be sent postpaid for \$10.00; or 1000 for \$15.00. On orders of 100 or more, we will print, if desired, on the cover-page, "Presented by," etc., (giving the name and address of the bee-keeper who scatters them). This alone will pay him for all his trouble and expense-enabling him to dispose of his honey at home, at a good profit.

To give away a copy of " Honey as Food and Medicine "to every one who buys a package of honey, will sell almost any quantity of it.

# Premium for Club of 10 Subscribers.

The book for every farmer is the one entitled "Affleck's Farmer's and Planter's Record and Account Book." in which there is the most systematic, complete and convenient arrangement of headings for every Farm Account and memoranda of all important events which may occur in connection with his business. Every progressive farmer certainly desires to make a success of his occupation, and should adopt every possible means of bringing about that result. He, then, should have a correct knowledge of his entire business, which he can have only by keeping a correct account of every crop produced on his farm, the cost of production of all his live stock and an itemized account of all his expenses. Then at the close of the year, when he takes off his balance sheet, which is admirably arranged in the book above referred to, he will be able to see at a glance whether his farm does or does not pay.

This valuable book contains 166 pages, is nicely printed on writing paper, ruled and bound, and the price is \$3.00. It can be sent by mail for 24 cents extra.

We can supply these books at the publisher's price, or will make a present of one copy for every club of TEN subscribers to the Weekly BEE JOURNAL for one year, with \$20. Four subscribers to the Monthly will count the same as one for the Weekly.

Now is the time to get up Clubs. Who will work for a copy of this valuable book?

For two subscribers for the Weekly BEE JOURNAL (or 8 for the Monthly) for one year, we will present a Pocket Dictionary, and send it by mail postpaid.

# Honey and Beeswax Market.

OFFICE OF THE AMERICAN BEE JOURNAL, Monday, 10 a, m., Dec. 15, 1984,

The following are the latest quotations for honey and beeswax received up to this hour :

### CHICAGO.

HONEY.—Comb boney has been taken with freedom by the trade this week, but 15@16c, is the best price obtainable for a fancy article of comb honey in frames. Some lots bring from 14 to 15c, when in good order. Stock of comb honey is not large at present. Extracted, 7@8c, for now. BEESWAX.—For fair to yellow, 28@30c.
R. A. BURNETT, 161 South Water St.

## NEW YORK.

HONEY.—The market is well stocked with honey which is in good demand at the following prices: Fancy white comb in 1-lb. sections, 1862:0c.; the same in 2-lb sections, 1861:8c.; fair to good white comb in 1 and 2-lb. sections, 146:16c.; fair op buckwheat comb in 1-lb. sections, 126:13c.; ame in 2-lb. sections, 116:11½c.; ordinary buckwheat comb in 2-lb. sections, 96:10c. Extracted, white clover in kegs or small barrels, 6½68:8c.

BEESWAX.—Prime yellow, 30:631c.

MCCAUL & HILDRETH, 34 Hudson St.

## CINCINNATI.

GINCINNATI.

HONEY.—There is an unsatisfactory demand for extracted honey from manufacturers, while there is a fair inquiry for small packages of clover honey such as dime, 4-1b., 1-1b., and 2-1b., jars, from the retail trade. Proces are low as arrivals exceed the demand. Extracted honey brings 5x-9c. on arrival; choice white comb honey is in fair demand and selis best in 1-ib. sections. It brings 15 6:10c. in the jobbing way. We have several small lots of dark comb honey from parties in Illinois, and offered it as low as 10 and 11 cents per 1b, without finding a buyer. Dealers most certainly mislead producers by quoting buckwheat and popular comb honey, if they are not more successful than we are in disposing of the same.

BEES WAX.—The demand is slow and arrivals are few. Good yellow brings 2002/7c. on arrival.

C. F. MUTH, Freeman & Central Ave.

## SAN FRANCISCO.

HONEY.—Stocks of combs are larger and include some of choice quality. Supplies of extracted are liberal, and prices are fully as much in buyers' favor, as at any time during the season.

White to extra white comb, 9%10c.; dark to good, 4%8c. Extracted, choice to extra white, 3%44%c.; dark and candied, 363%c.

BEESWAX.—Wholesale, 24627c.

STEARNS & SMITH, 425 Front Street.

## ST. LOUIS.

HONEY — Steady; demand and supply both small. Comb, 12@14c per lb, and strained and extracted decelyc.

BEESWAX — Firm at 32@32½c. for choice.
W.T. ANDEMSON & Co., 104 N. 3d Street,

## CLEVELAND.

HONEY.—Honey is in a little better demand at a little lower price than our former quotations. Whilst the market is still full, we are enabled to place the lower price at little, we are enabled to place the lower than the lower than

## SAN FRANCISCO.

HONEY—We quote comb honey in 2 lb. sections, 13@14c; extracted, 6%c. GEO. W. MEADE & Co., 213 Market.

## KANSAS CITY.

MANSAS CITY.

MANSAS CITY.

HONEY.—The market is quiet and unchanged, with good demand and liberal receipts. Comb, ½-1b. sections, none in the market. They would bring 18c.; 1-1bs., 14@16c.; 21bs., 13@14c. The above figures are for choice stock in regular shipping crates. Dark or large combs in rough crates sell slowly at 9 to 10c. Extracted, California, 6@7c.; white clover, 7@8c.; Southern, 5½@6c.

BEESWAX.—None in the market.

CLEMONS, CLOON & Co.

Successors to Jerome Twichell.

## BOSTON.

HONEY.—We quote best white in 1-lb. sections, 18@20c.; 2-lb., 16@18c. Extracted, 8@9c. Unglassed sections sell best.

BEESSWAX—35c.

BLAKE & RIPLEY, 57 Chatham Street.

A Christmas Present.

## Convention Hand-Book.

It is a nice Pocket Companion for bee-keepers. It is beautifully printed on toned paper, and bound in cloth price 50 cents.

We have had some bound in Russia leather, with colored edges-price 60

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We can supply photographs of Rev. L. L. Langstroth, the Baron of Berlepsch, or Dzierzon, at 25 cts. each.

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THE VOLTAIC BELT CO, of Marshall, Mich., oper to send their celebrated ELECTRO-VOL TAIC BELT and other ELECTRIC APPLIANCES on trial for thirty days, to men (young or old) afflicted with nervous debility, loss of vitality and manhood, and all kindred troubles. Also for rheumatism, neuralgia, paralysis, and many other diseases. Complete restoration to health, vigor and manhood guaranteed. No risk is incurred, as thirty days trial is allowed. Write them at once for illustrated pamphlet free. 6D1y

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White Poplar Sections a specialty in quality and accuracy. Send for Illustrated Catalogue and Price List.

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We have just issued a new four-page circular that will interest any bee-keeper. Send your name on a postal card for it.

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more money than at anything else by taking an agency for the best selling book out. Beginners succeed grandly. None fail. Terms free. HALLETT BOOK Co. Portland, Maine.

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TRUE & Co., Augusta, Maine.

for working people. Send 10 cents postage, and we will mail you free, a royal, valuable sample box of goods that will put you in the way of making more money in a few days than you ever thought possible at any buser and work in spare time only, or all the time. All of both sexes, of all ages, grandly successful. So cents to \$5 easily earned every evening. That all who want work may test the business, we make this unparalleled offer: To all who are not well satisfied we will send \$1 to pay for the trouble of writing us. Full particulars, directions, etc., sent free. Immense pay absolutely sure for all who start at once. 51Aly Portland, Maine.

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To every person who sends us one NEW subscription, (besides his own renewal), for one year, for the Weekly BEE JOURNAL, or 4 NEW Monthly subscribers, for a year, we will send as a present, by mail, postpaid, a copy of " Mistletoe Memories, or What the Poets say about Christmas."



It comprises a collection of poems selected from the writings of H. W. Longfellow, J. G. Whittier, Thomas Hood, Alfred Domett, Chas. Mackay, Sir Walter Scott, Jennie Joy, and others. The whole bound in Banner shape, with rich silk fringe and tassels. For presentation, this art souvenir is vastly superior to a mere Christmas card, as it combines the advantages of both art and literature. Size, 4 by 61/4 inches.

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The BRITISH BEE JOURNAL is published SEMI-MONTHLY, at Seven Shillings per annum, and contains the best practical information for the time being, showing what to do, and when and how to do it. **Rev. H. R. P.E.L. Editor.**LONDON, ENGLAND.

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high side-walls, 4 to 16 square feet to J. VAN DEUSEN & SONS, Sole Manufacturers, Sprout Brook, Mont. Co., N. Y.

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For Bees, Queens.

Honey, Foundation, Hives, Sections, and all Apiarian Implements, send for Circular to

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for the working class. Send 10 cents for postage, and we will mail you free, are yeal, valuable box of sample goods that will put you in the way of making more money in a few days, than you ever thought possible at any business. Capital not required. We will start you. You can work all the time or in spare time only. The work is universally adapted to both sexes, young and old. You can easily earn from 50 cents to \$5 every evening. That all who want work may test the business, we make this unparalleled offer; to all business, we make this unparalleled offer; to all trouble of writing us. Full particulars, directions, etc., sent free. Fortunes will be made by those who give their whole time to the work. Great success absolutely sure. Bon't delay. Start now. Address Stinson & Co., Portland, Maine. 4Aly

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A TREATISE giving an index of diseases, and the symptoms; cause and treatment of each, a table giving all the principal drugs used for the horse, with the ordinary dose, effects and antidote when a poison; a table with an engraving of the horse's teeth at different ages, with rules for telling the age of the horse; a valuable collection of recipes, and much valuable information.

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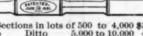
A word of explanation in regard to the infringement suit on the One-Piece Section, we deem necessary at this time.

I commenced suit against A. I. Root, in the United States Circuit Court, for the Northern district of Ohio; Stanley Matthews presiding. He decided that the patent was void for want of novelty. I have taken an appeal to the United States Supreme Court at Washington, which will decide the case, and its decision will be final. If it goes against me I will submit, but if decided In my favor, I shall expect all who have infringed will pay me damages from date of the patent.

Some unprincipled parties are advertising

the patent. Some unprincipled parties are advertising that the Courts have decided that the patent is void. This is not the case, as it is before the United States Supreme Court at Washington, at the present time. When that Court gives its opinion it will be final, and until it does, any one infringing will be liable for damages, if the United States Supreme Court sustains the patent.

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One-lb. Sections in lots of 500 to 4,000 \$5.00 Ditto Ditto 5,000 to 10,000 4.75 Ditto Ditto 10,000 to 25,000 4.50 Ditto Ditto 25,000 to 50,000 4.25 Ditto Ditto 100,000 or more 4.00

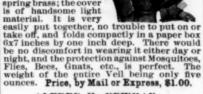
The one-lb. Section is 17 inches long. For any sizes between 17 and 20 inches in length, add 5 per cent. For any sizes between 20 and 24 inches, add 10 per cent. Add the above per centage to the price of one-lb. Sections in the same quantity.

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OR MADE UP COMPLETE,

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1 00	Herald, Independent w	2 85
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250	W-B.	4 40
2 50	Religio-Phil. Jour., Spiritw	4 10
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350	* Standard, Baptist	4 35
1 25	* Times, Democratic	3 20
1 00	Cincinnati Times-Star, Indw	3 00
1 15	Enquirer, Democraticw	3 15
1 25	" Gazette, Republicanw	3 05
1 00		3 00
1 00	Kansas City Journal, Republican w	3 00
1 00	" Times, Democraticw	3 00
150		3 30
	Milwaukee Peck's Sun, Humor w	3 85
	New York Am. Agriculturistm	3 10
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4 00	" Century, Literary m	5 70
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250	Graphic, Illustrated w	4 00
4 00	" Harpers' Weekly, Illus w	5 40
2 50		4 20
5 00		6 30
2 00	<ul> <li>Phrenological Journalm</li> </ul>	3 75
2 00		3 85
2 20		4 95
1 00		3 00
1 25	" Tribune, Republican w	3 10
1 00		3 (10)
	Philadelphia Call, Lit. & Humorw	4 00
2 00		3 50
2 00		3 70
3 00	" Hearthstone, Fictionw	4 25
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